

FIG.1

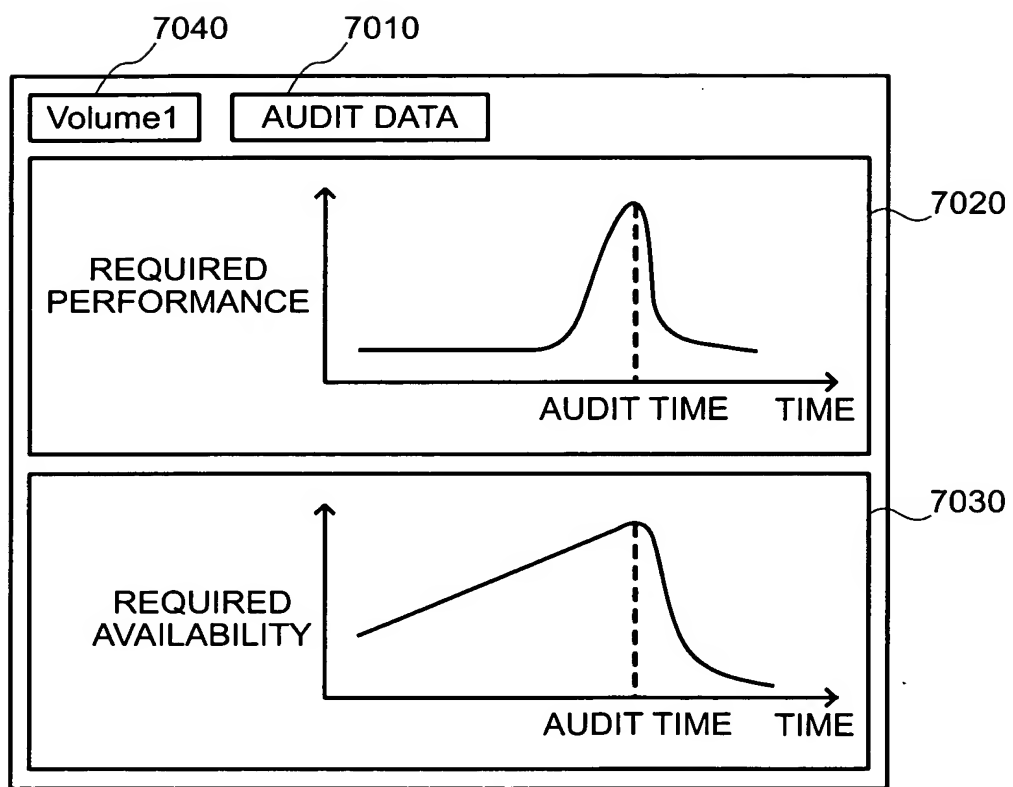


FIG.2

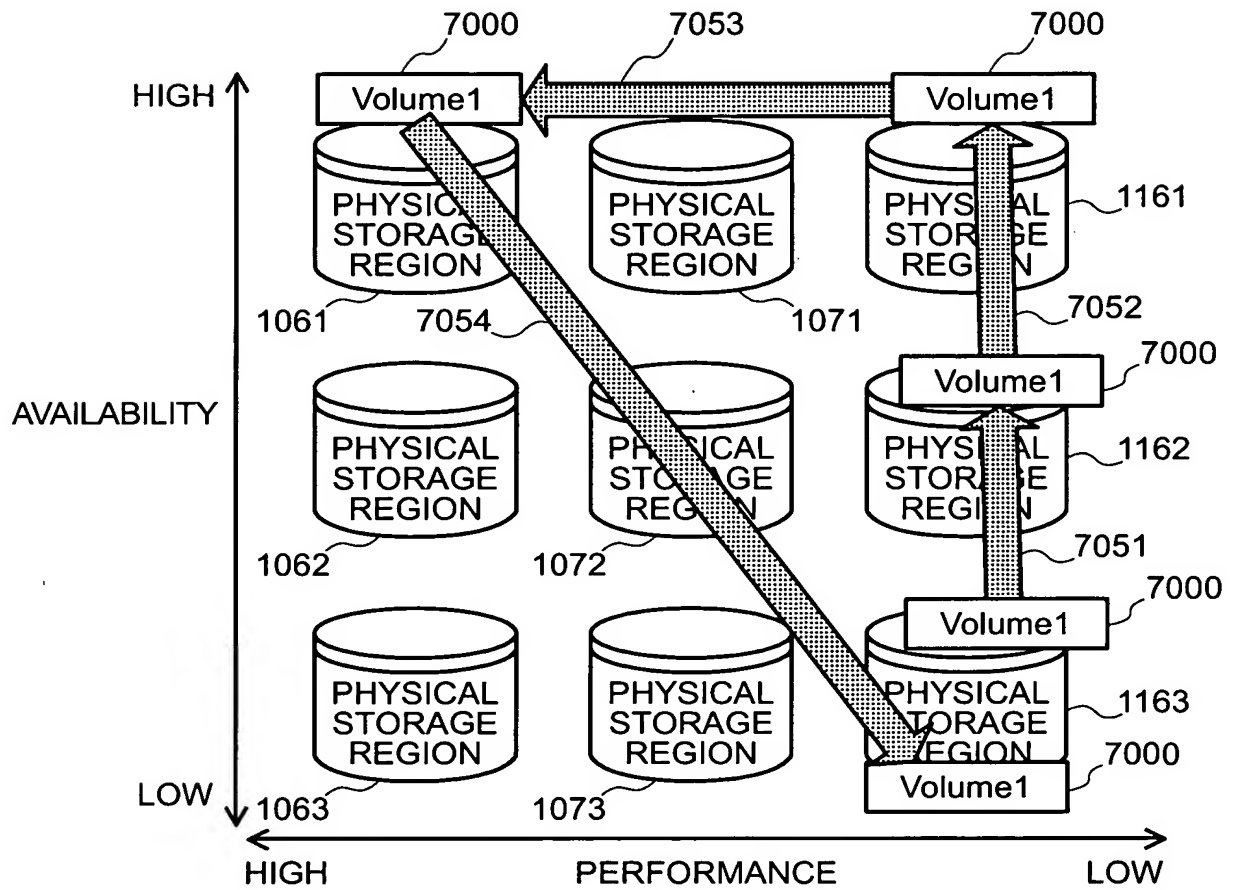


FIG.3

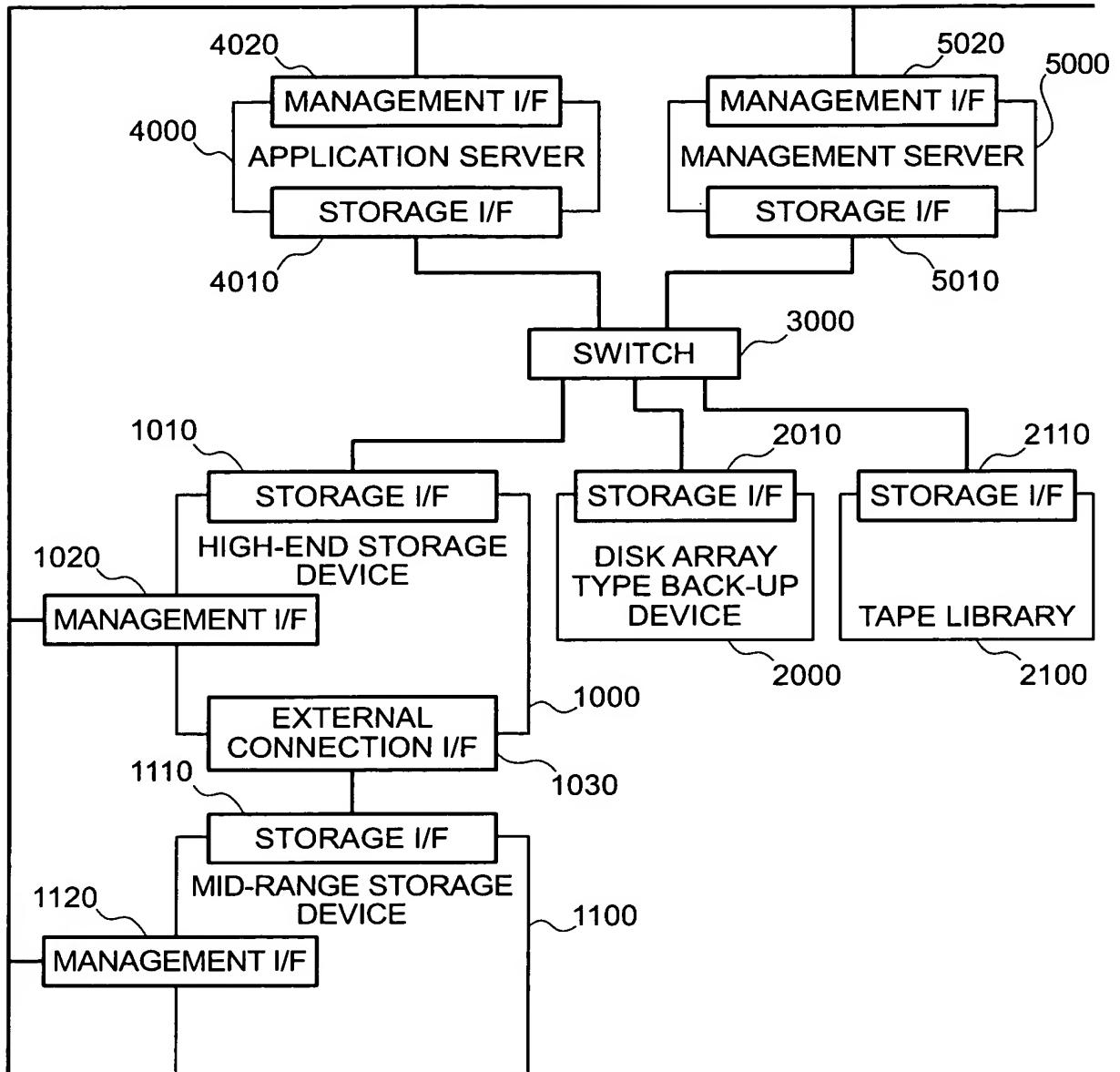


FIG.4

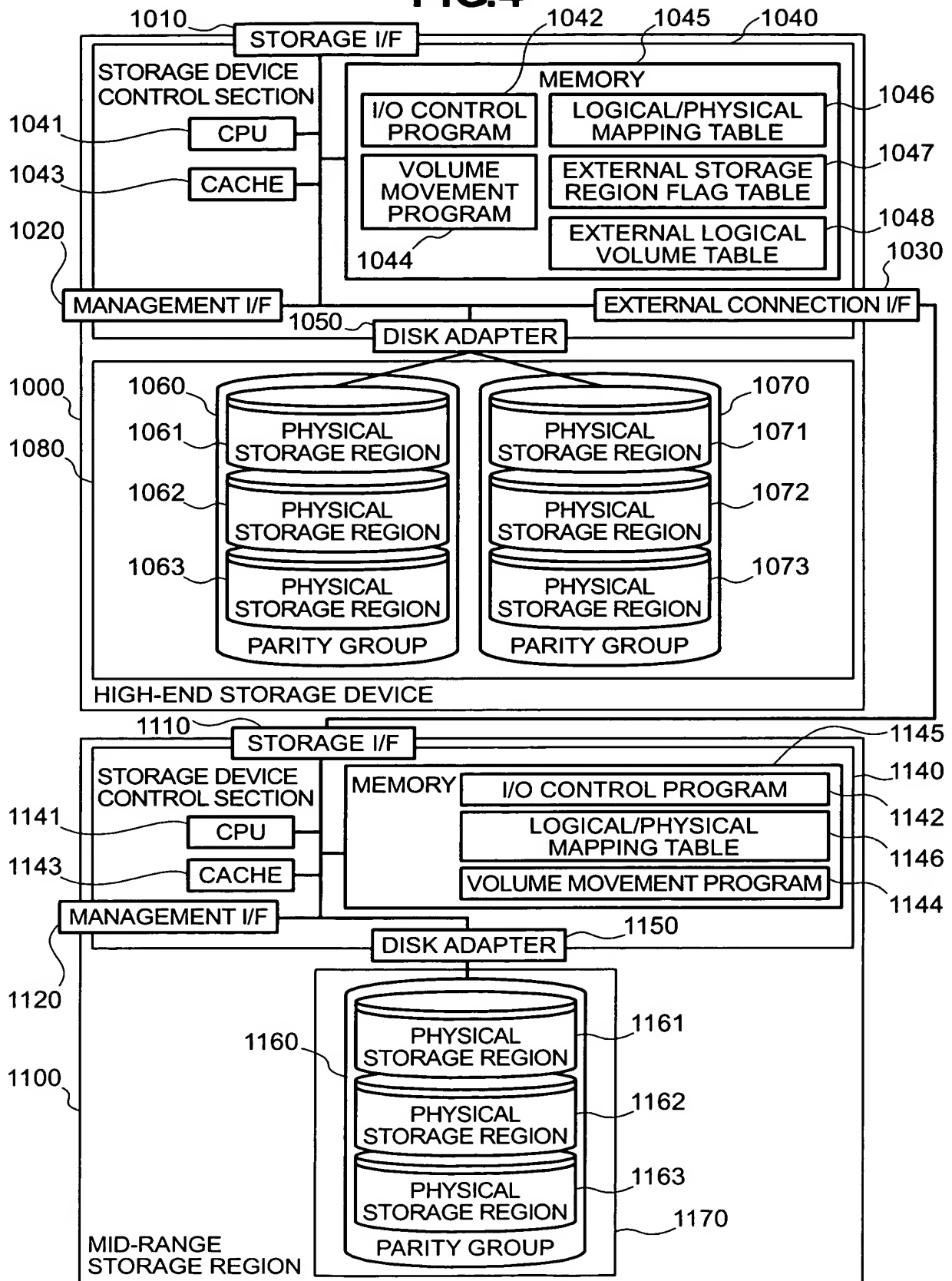


FIG.5A

LOGICAL VOLUME ID	PARITY GROUP ID	PHYSICAL STORAGE REGION ID	ADDRESS IN PHYSICAL STORAGE REGION
Volume1	1060	1061	0~1023
Volume2	1060	1063	0~1023
Volume4	1070	1072	0~1023
Volume6	1070	1072	1024~2047

FIG.5B

LOGICAL VOLUME ID	EXTERNAL STORAGE REGION FLAG
Volume1	0
Volume2	0
Volume3	1
Volume4	0
Volume5	1
Volume6	0

FIG.5C

LOGICAL VOLUME ID	STORAGE DEVICE ID	EXTERNAL LOGICAL VOLUME ID
Volume3	1100	Volume1
Volume5	1100	Volume2

FIG.5D

LOGICAL VOLUME ID	PARITY GROUP ID	PHYSICAL STORAGE REGION ID	ADDRESS IN PHYSICAL STORAGE REGION
Volume1	1160	1161	0~1023
Volume2	1160	1163	0~1023

FIG.6

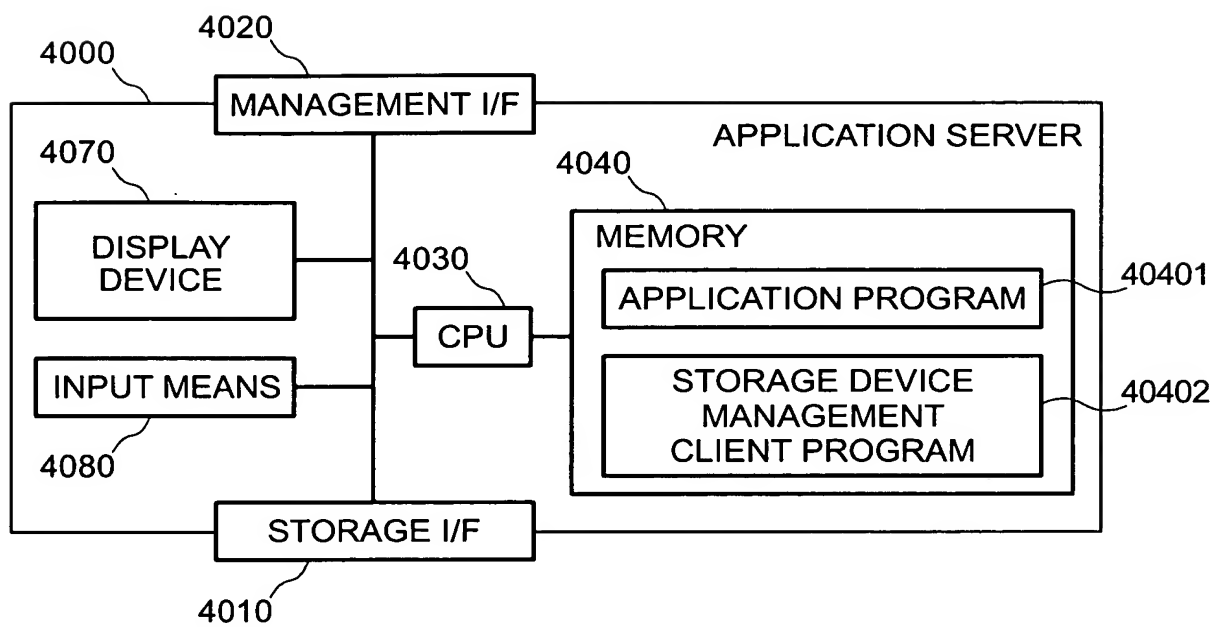


FIG.7

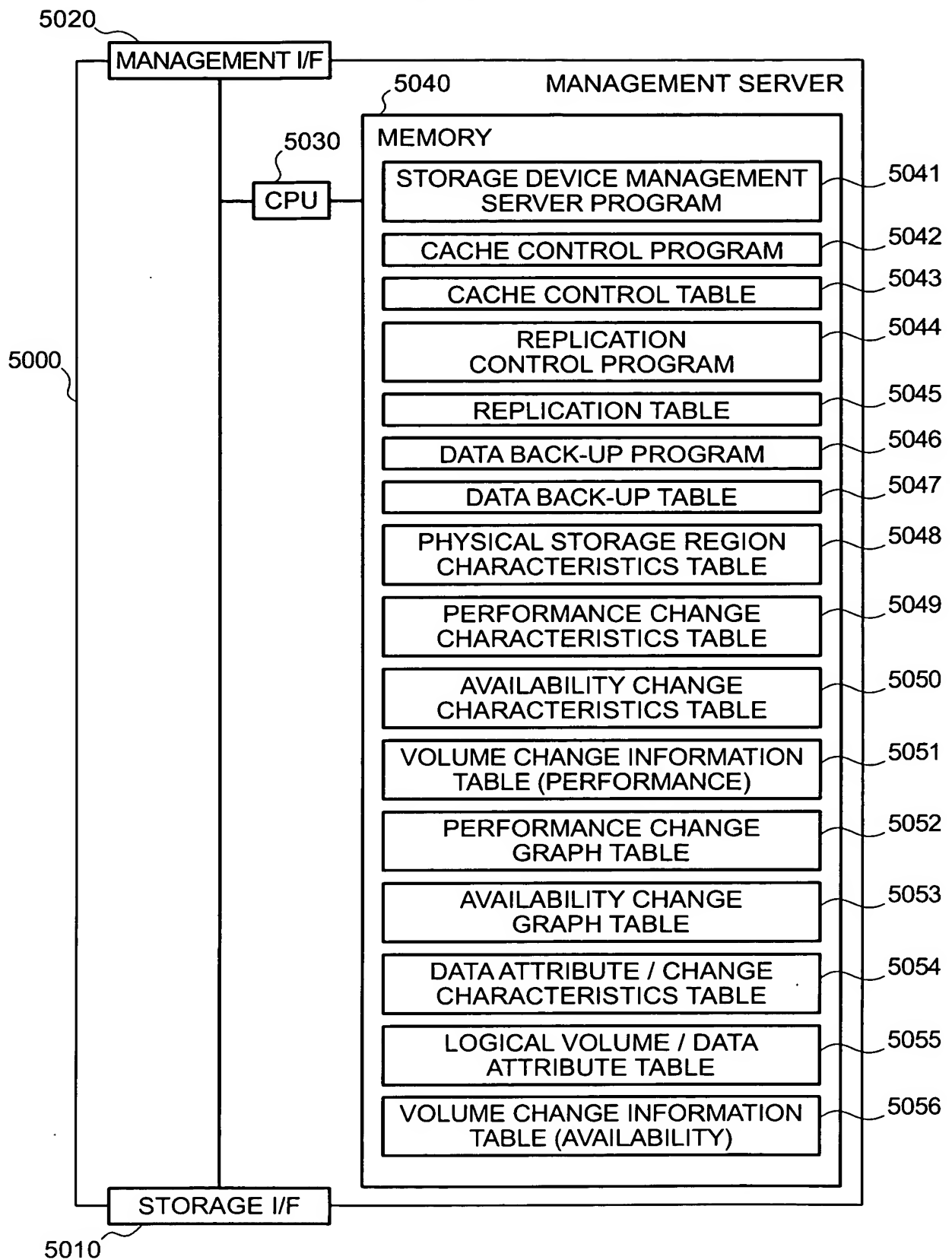


FIG.8

50471 STORAGE DEVICE ID	50472 PHYSICAL STORAGE REGION ID	50473 BACK-UP DEVICE ID	50474 BACK-UP DEVICE CHARACTERISTICS
1000	1061	2000	HIGH-SPEED
1000	1062	2000	HIGH-SPEED
1000	1063	2100	LOW-SPEED
1000	1071	2000	HIGH-SPEED
1000	1072	2000	HIGH-SPEED
1000	1073	2100	LOW-SPEED
1100	1161	2000	HIGH-SPEED
1100	1162	2000	HIGH-SPEED
1100	1163	2100	LOW-SPEED

FIG.9

50451 STORAGE DEVICE ID	50452 PHYSICAL STORAGE REGION ID
1000	1061
1000	1071
1100	1161

FIG.10

50431 STORAGE DEVICE ID	50432 PHYSICAL STORAGE REGION ID
1000	1061
1000	1062
1000	1163

FIG.11

5048			
50481	50482	50483	50484
STORAGE DEVICE ID	PHYSICAL STORAGE REGION ID	PERFORMANCE CHARACTERISTICS	AVAILABILITY CHARACTERISTICS
1000	1061	HIGH	HIGH
1000	1062	HIGH	MEDIUM
1000	1063	HIGH	LOW
1000	1071	MEDIUM	HIGH
1000	1072	MEDIUM	MEDIUM
1000	1073	MEDIUM	LOW
1100	1161	LOW	HIGH
1100	1162	LOW	MEDIUM
1100	1163	LOW	LOW

FIG.12A

PERFORMANCE CHANGE CHARACTERISTICS ID	ESTABLISHED DATE/TIME NAME	ESTABLISHED DATE/TIME	VOLUME CHANGE INFORMATION ID	PERFORMANCE CHANGE GRAPH ID
1	STORAGE CONDITIONS CHANGE DATE	2008/7/15	1	1
2	—	—	2	2
3	AUDIT DATE	2004/6/30	3	3
4	AUDIT DATE	2004/9/30	3	3

FIG.12B

VOLUME MOVEMENT INFORMATION (PERFORMANCE) ID	MOVEMENT NO.	MOVEMENT DATE/TIME	MOVEMENT DESTINATION PERFORMANCE CHARACTERISTICS
1	1	UPON CREATION	HIGH
	2	$(\text{ESTABLISHED DATE/TIME} - \text{CREATION DATE/TIME}) / 3$	MEDIUM
	3	$(\text{ESTABLISHED DATE/TIME} - \text{CREATION DATE/TIME}) \times 2/3$	LOW
2	1	UPON CREATION	MEDIUM
3	1	UPON CREATION	LOW
	2	ESTABLISHED DATE/TIME - 3	HIGH
	3	ESTABLISHED DATE/TIME + 1	LOW

FIG.13

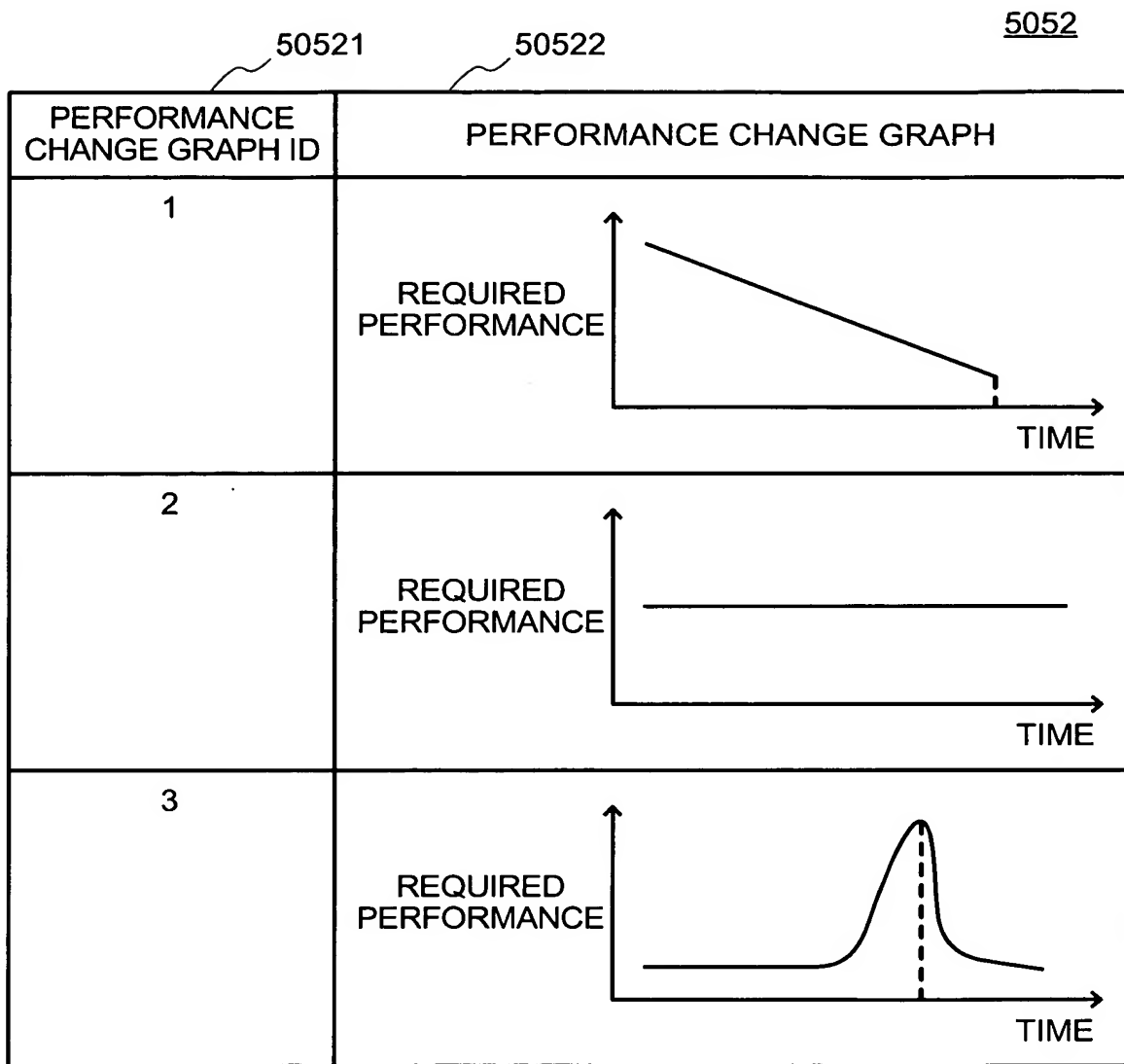


FIG.14

(A)

50501 AVAILABILITY CHANGE CHARACTERISTICS ID	50502 ESTABLISHED DATE NAME	50503 ESTABLISHED DATE/TIME	50504 VOLUME MOVEMENT INFORMATION ID	50505 AVAILABILITY CHANGE GRAPH ID
1	FILING CONDITIONS CHANGE DATE	2008/7/15	1	1
2	FILING CONDITIONS CHANGE DATE	2005/7/15	2	2
3	MONITORING DATE	2004/6/30	3	3
4	MONITORING DATE	2004/9/30	3	3

(B)

50515 VOLUME MOVEMENT INFORMATION (AVAILABILITY) ID	50516 MOVEMENT NO.	50517 MOVEMENT DATE/TIME	50518 MOVEMENT DESTINATION AVAILABILITY CHARACTERISTICS
1	1	UPON CREATION	HIGH
	2	(ESTABLISHED DATE/TIME - CREATION DATE/TIME) / 3	MEDIUM
	3	(ESTABLISHED DATE/TIME - CREATION DATE/TIME) × 2/3	LOW
2	1	UPON CREATION	HIGH
	2	ESTABLISHED DATE/TIME	LOW
3	1	UPON CREATION	LOW
	2	(ESTABLISHED DATE/TIME - CREATION DATE/TIME) / 3	MEDIUM
	3	(ESTABLISHED DATE/TIME - CREATION DATE/TIME) × 2/3	HIGH
	4	ESTABLISHED DATE/TIME + 1	LOW

FIG.15

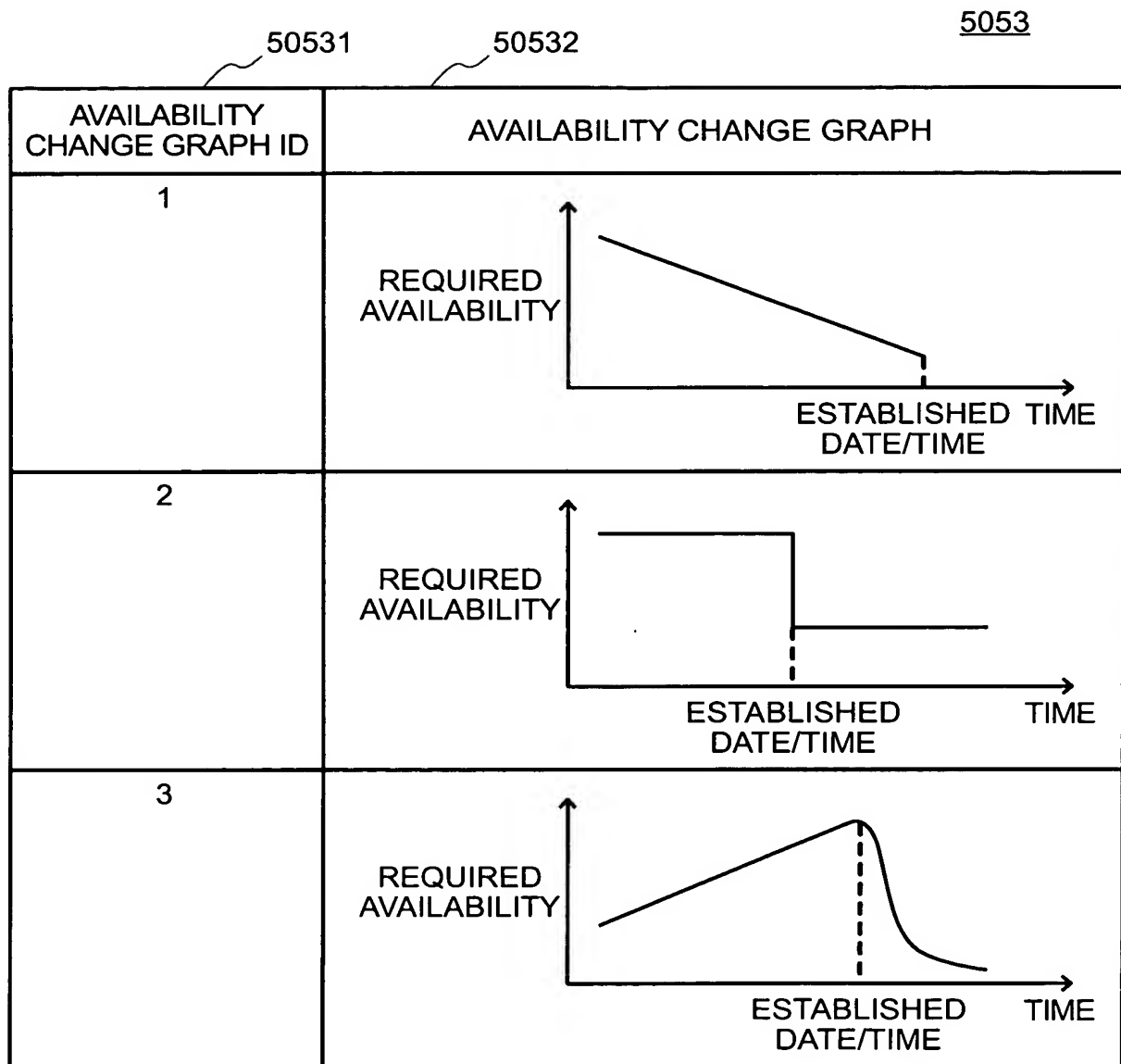


FIG.16

50541 DATA ATTRIBUTE NAME		50542 PERFORMANCE CHANGE CHARACTERISTICS ID	50543 AVAILABILITY CHANGE CHARACTERISTICS ID
AUDIT DATA WITH ESTABLISHED DATE/TIME 6/30		3	3
MAIL LOG WITH ESTABLISHED DATE/TIME 7/15		1	2
AUDIT DATA WITH ESTABLISHED DATE /TIME 9/30		3	3

FIG.17

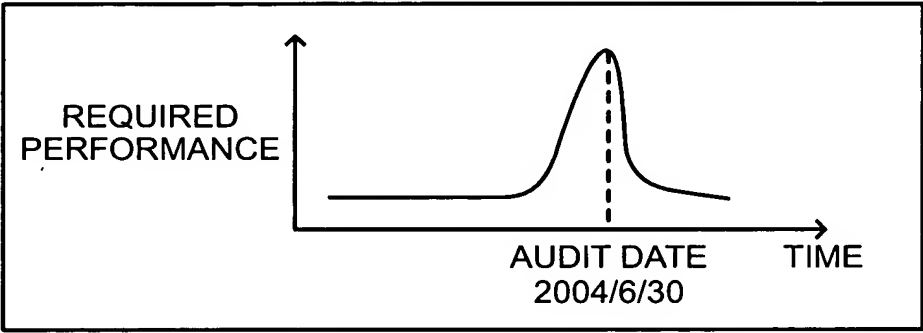
9000

LOGICAL VOLUME ALLOCATION SCREEN

LOGICAL VOLUME ID ▾ 9100

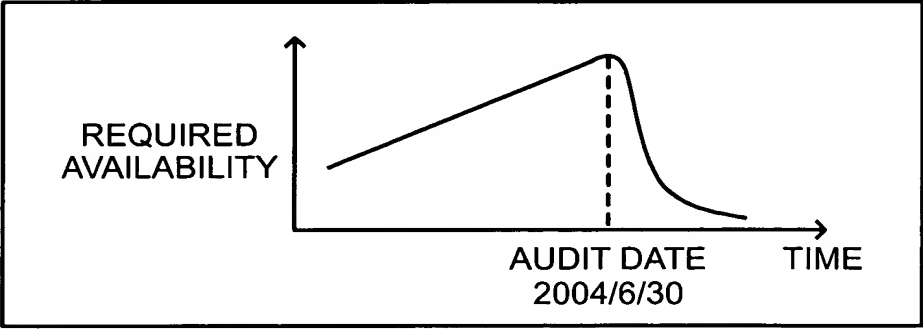
DATA ATTRIBUTE NAME ▾ 9200

PERFORMANCE CHANGE CHARACTERISTICS



The graph shows 'REQUIRED PERFORMANCE' on the y-axis and 'TIME' on the x-axis. A bell-shaped curve rises from a baseline, peaks, and then falls back to the baseline. A vertical dashed line marks the peak, labeled 'AUDIT DATE 2004/6/30'.

AVAILABILITY CHANGE CHARACTERISTICS



The graph shows 'REQUIRED AVAILABILITY' on the y-axis and 'TIME' on the x-axis. A curve rises linearly from a baseline, peaks, and then falls back to the baseline. A vertical dashed line marks the peak, labeled 'AUDIT DATE 2004/6/30'.

OK 9700

FIG.18

5055

50551

50552

LOGICAL VOLUME ID	DATAATTRIBUTE
Volume1	AUDIT DATA WITH ESTABLISHED DATE/TIME 6/30
Volume2	MAIL LOG WITH ESTABLISHED DATE/TIME 7/15

FIG.19

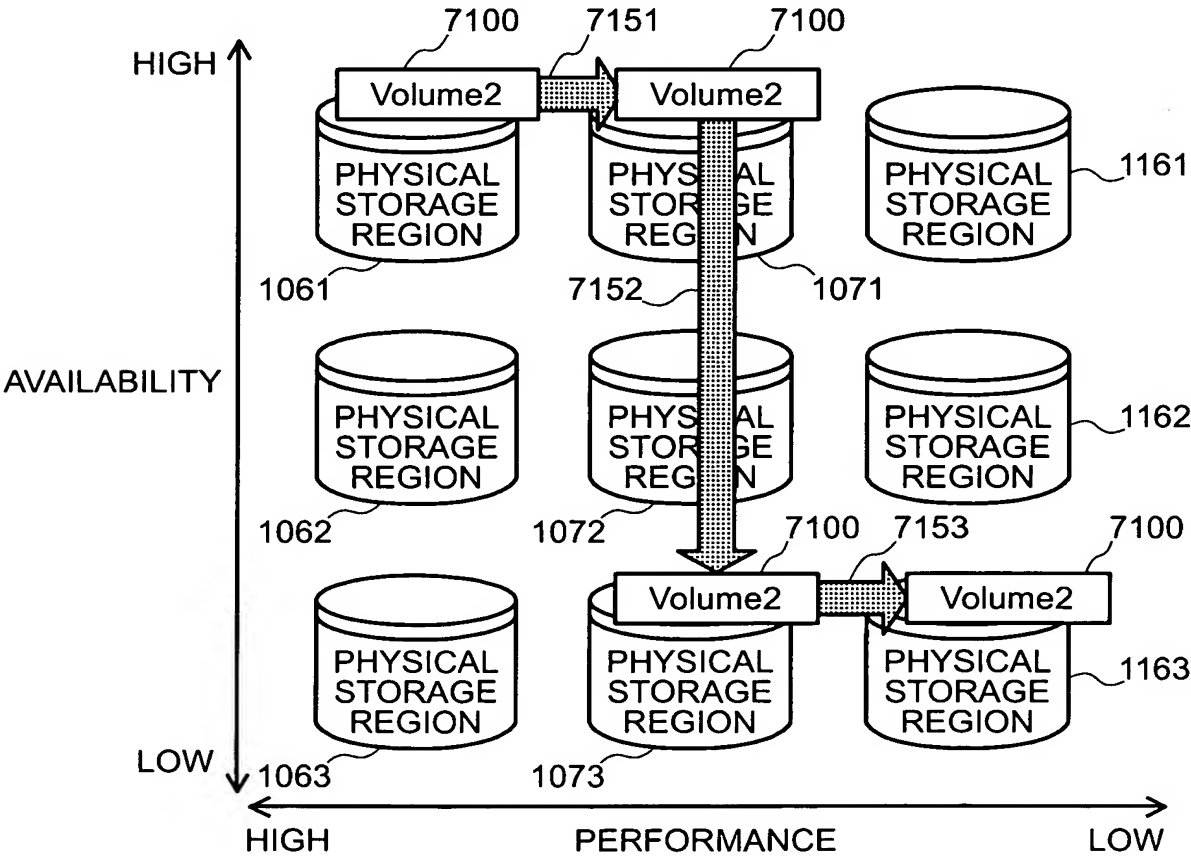


FIG.20

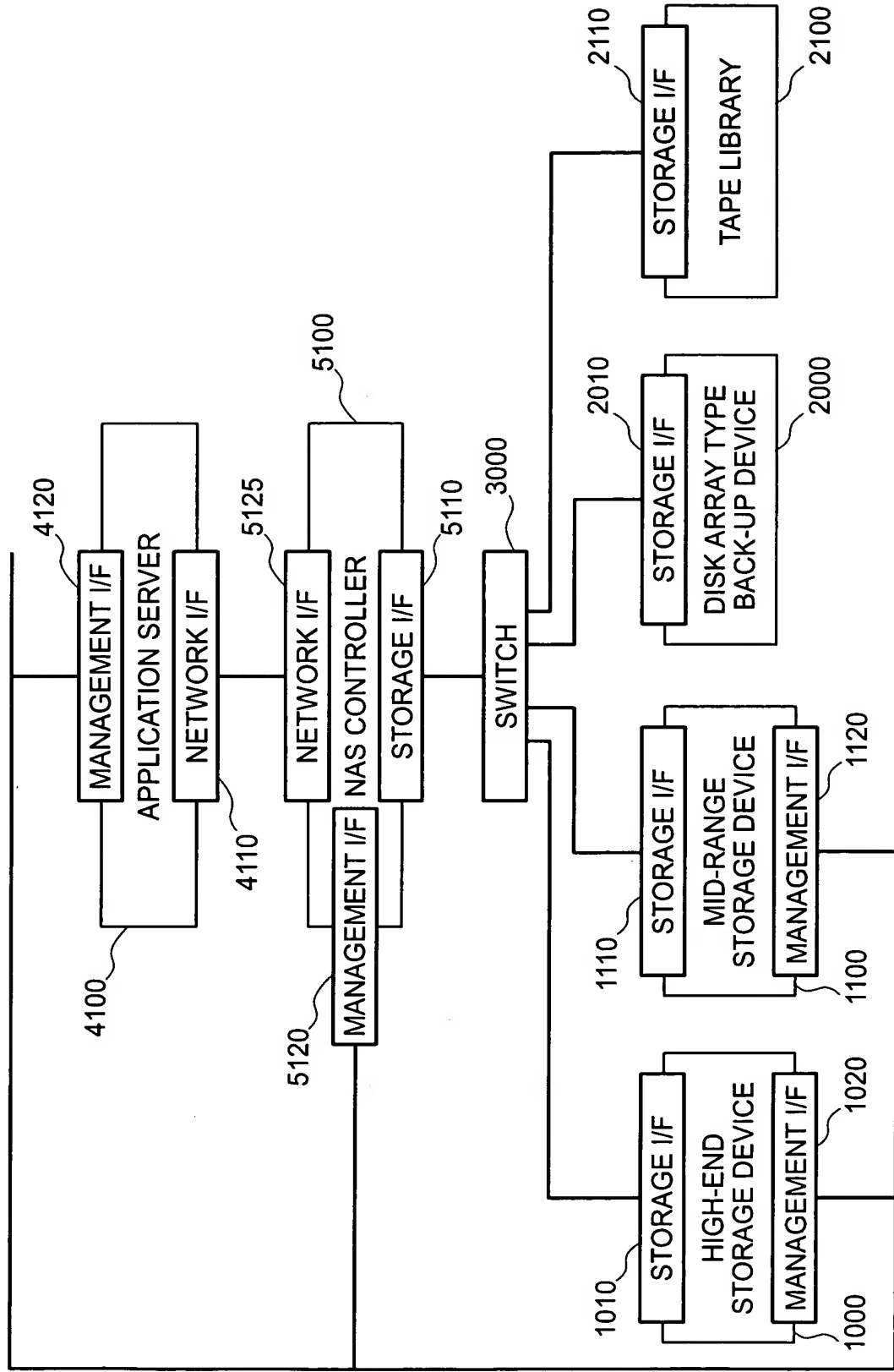


FIG.21

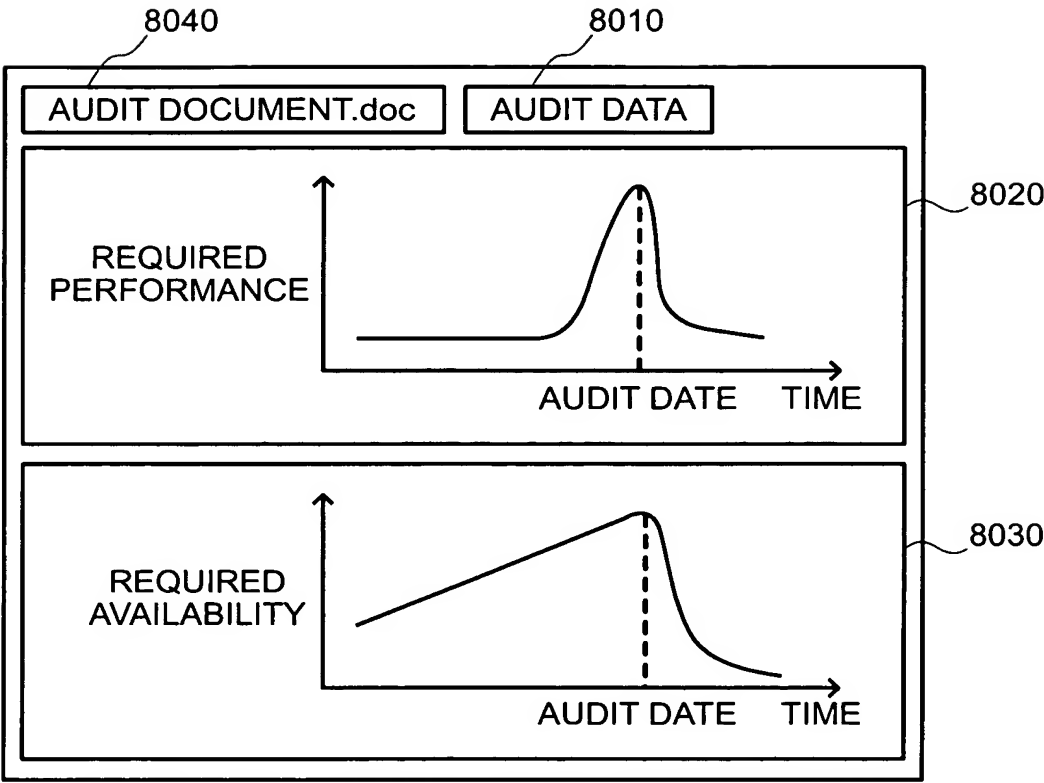


FIG.22

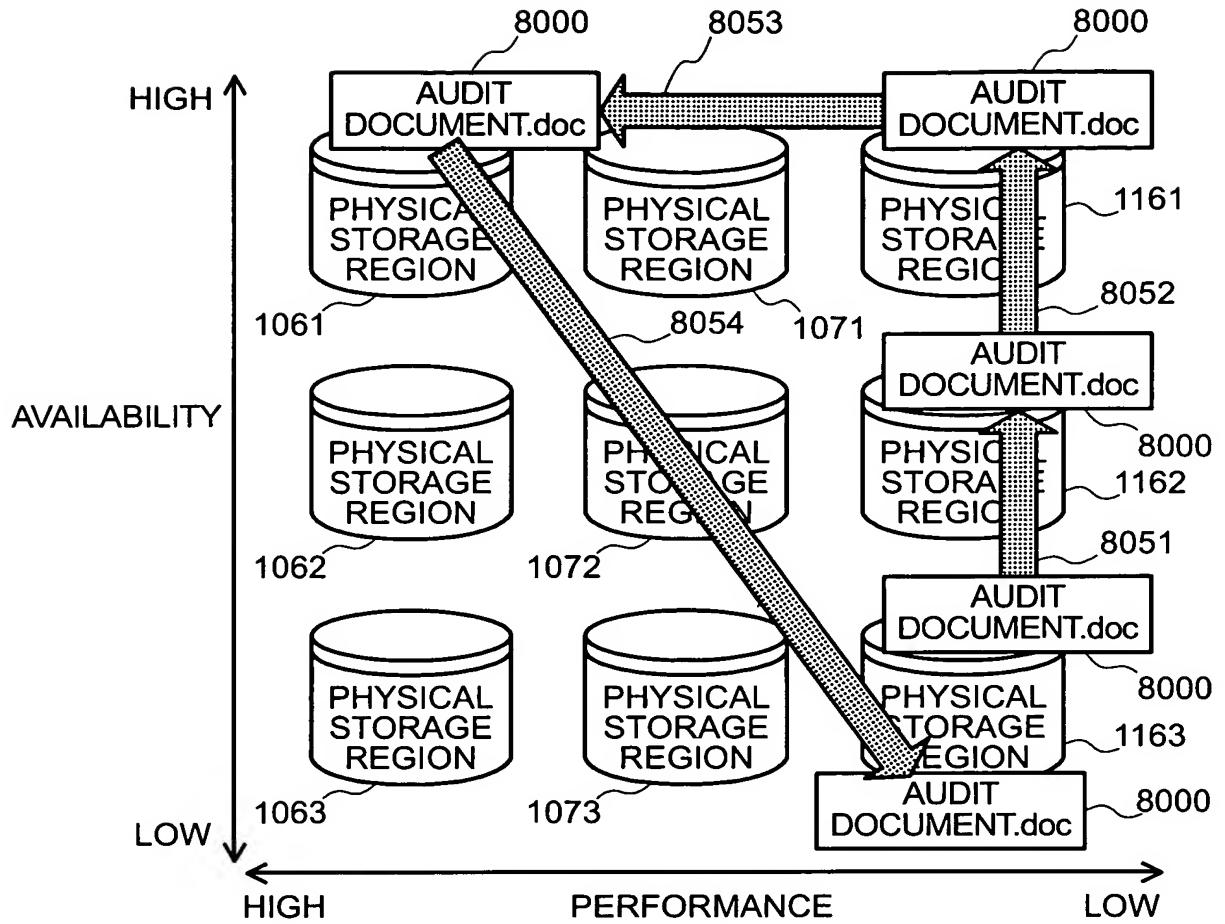


FIG.23

FILE NAME	STORAGE DEVICE ID	PHYSICAL STORAGE REGION ID	ADDRESS IN PHYSICAL STORAGE REGION
AUDIT DOCUMENT.doc	1100	1163	0~1023
maillog.mbx	1000	1061	0~1023

FIG.24

5057

LOGICAL VOLUME	DATA TYPE	CREATION DATE	ESTABLISHED DATE	MOVEMENT DATE/TIME	PHYSICAL STORAGE REGION	
					PERFORMANCE	AVAILABILITY
1	AUDIT	2004/1/1	2004/6/30	2004/1/1	LOW	LOW
				2004/2/29	LOW	MEDIUM
				2004/4/30	LOW	HIGH
				2004/6/27	HIGH	HIGH
				2004/7/1	LOW	LOW
2	MAIL LOG	2003/12/31	2006/12/31	2003/12/31	HIGH	HIGH
				2004/12/31	MEDIUM	HIGH
				2005/12/31	LOW	LOW
...						